

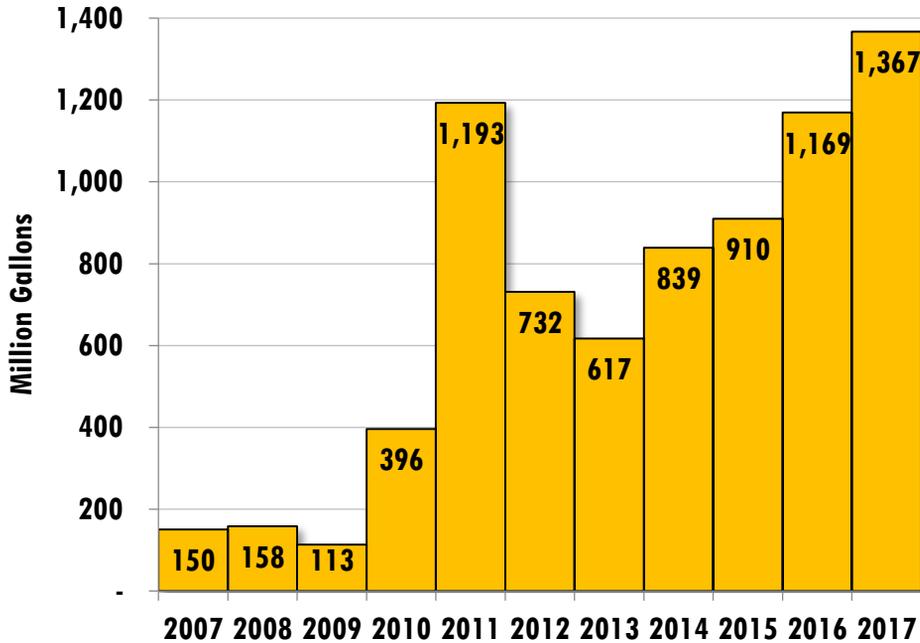


2017 U.S. ETHANOL EXPORTS AND IMPORTS

Statistical Summary

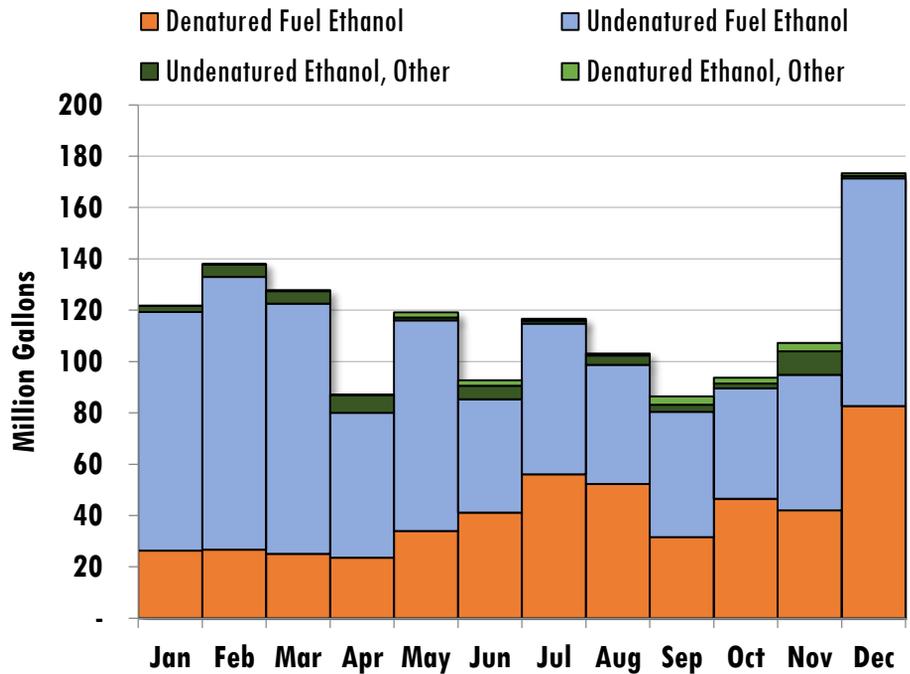
2017 U.S. ETHANOL EXPORTS

Annual U.S. Ethanol Exports



The U.S. exported **1.37 billion gallons** of ethanol in 2017—up 17% from 2016 and the highest annual total on record. American-made ethanol was exported to **more than 60 countries** on all six inhabited continents around the world in 2017.

2017 Monthly Ethanol Exports, by Type

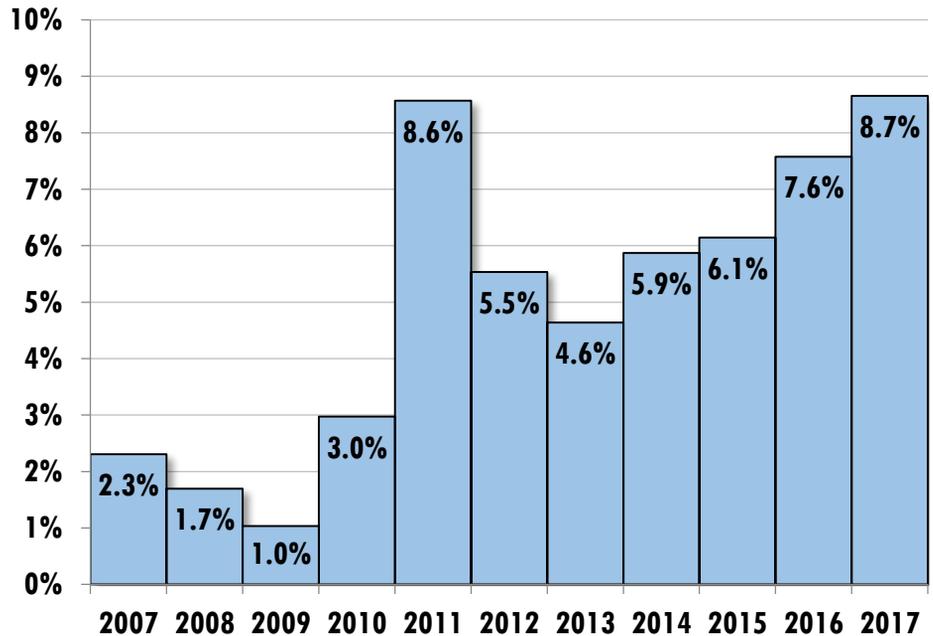


Undenatured ethanol for fuel use accounted for **60%** of total exports in 2017. Meanwhile, denatured ethanol for fuel use made up **36%**. Denatured and undenatured ethanol for non-fuel industrial uses accounted for the remaining **4%**.

2017 U.S. ETHANOL EXPORTS

Export Share of U.S. Ethanol Production

An estimated **8.7%** of total U.S. ethanol production was exported in 2017, meaning one out of every 11 gallons produced was exported. That's the highest share in history, barely edging out 2011.



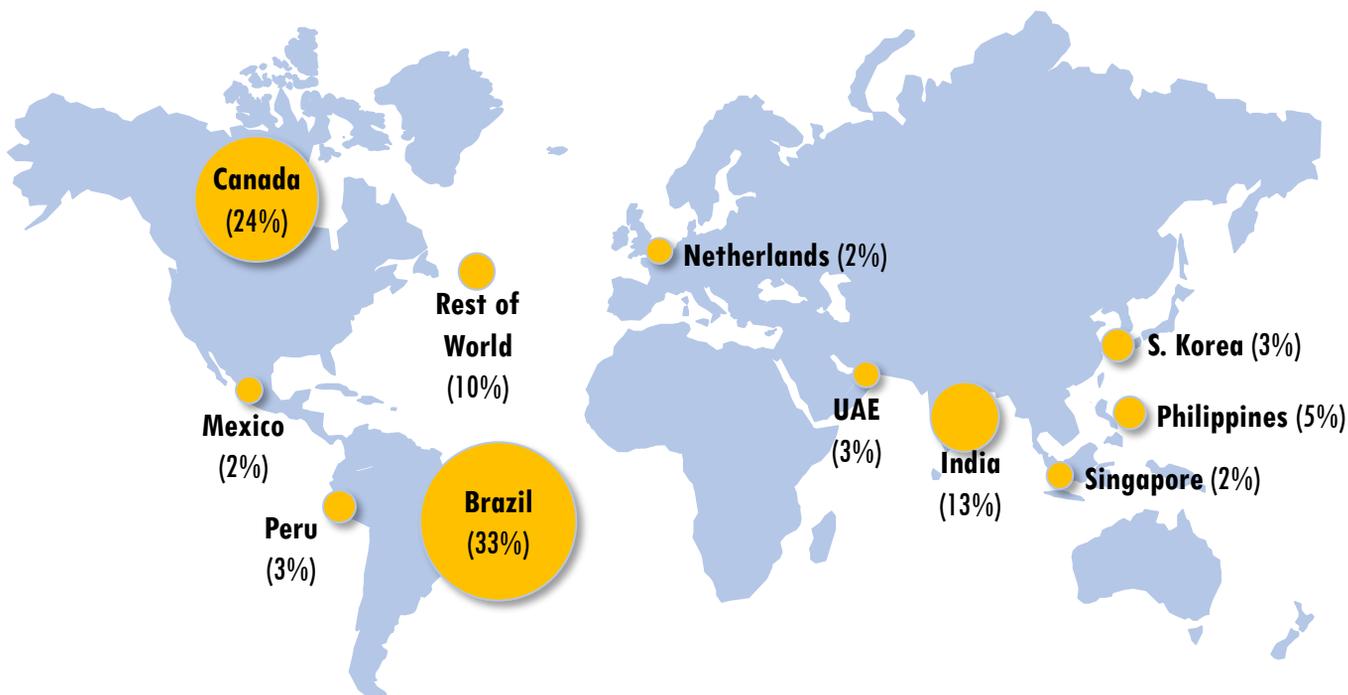
Value of U.S. Ethanol Exports



U.S. ethanol exports were valued at **\$2.4 billion** in 2017, up 16% from 2016 and the second-highest on record.

2017 ETHANOL EXPORTS: TOP MARKETS

Top Markets for U.S. Ethanol Exports in 2017



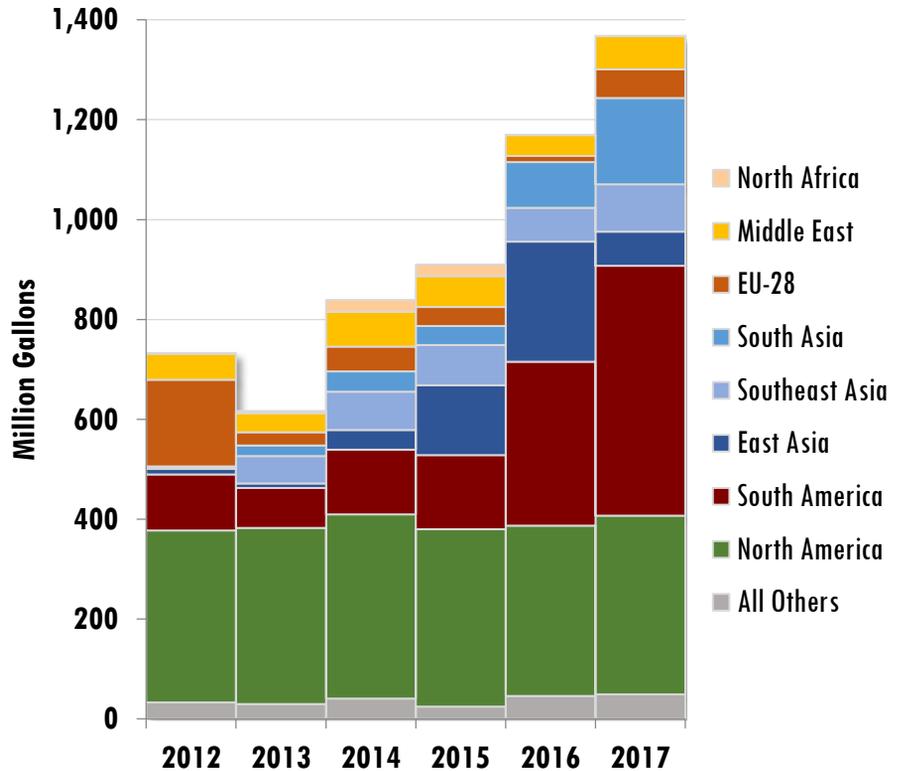
2017 ethanol export volumes to the Top 10 markets are shown in the table below, along with a comparison to 2016 volumes. All figures shown in millions of gallons, unless otherwise noted.

Country	Den. Fuel	Und. Fuel	Den. Other	Und. Other	2017 Total	2016 Total	Change
Brazil	4.8	440.8	-	0.1	445.7	279.1	+60%
Canada	315.9	0.2	11.8	0.2	328.0	311.6	+5%
India	23.8	140.6	8.1	0.2	172.7	91.4	+89%
Philippines	5.5	58.8	-	1.7	66.0	57.6	+15%
South Korea	10.6	28.0	1.6	3.3	43.4	42.0	+3%
U. Arab Emir	15.3	24.2	-	-	39.5	22.3	+77%
Peru	23.1	13.1	-	-	36.2	43.4	-17%
Netherlands	9.2	24.2	-	-	33.5	9.4	+256%
Mexico	1.5	25.4	1.9	-	30.0	29.7	+1%
Singapore	13.4	15.2	-	0.1	28.7	10.5	+173%

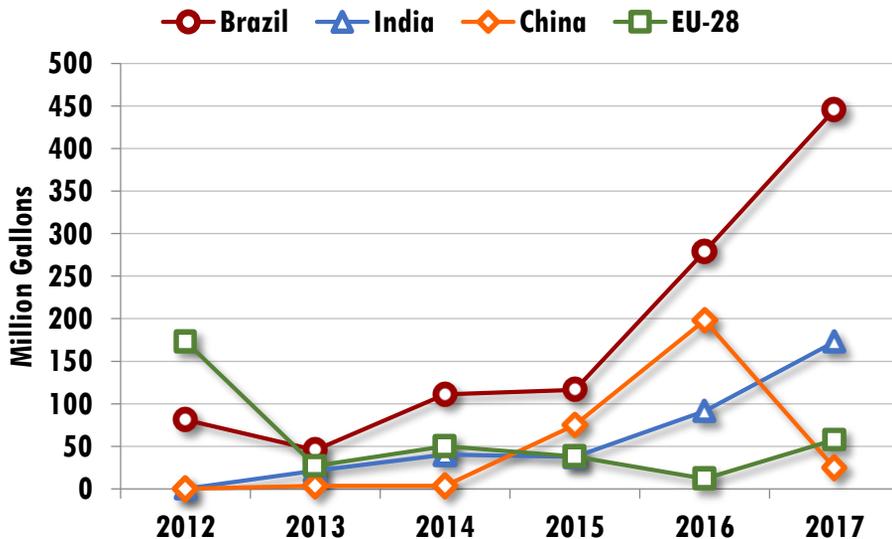
U.S. ETHANOL EXPORTS: SHIFTING MARKETS

U.S. Exports by Region

Exports to **South America** boomed in 2017, driven by record exports to Brazil. Led by India, exports to **South Asia** also increased. Meanwhile, exports to **East Asia** dropped as shipments to China collapsed. Buoyed by Canada, exports to **North America** remained remarkably steady.



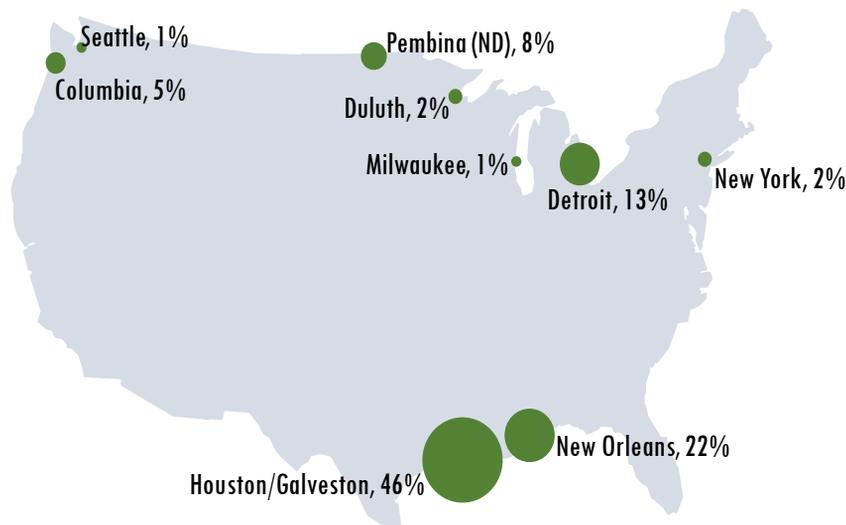
Volatility in Major U.S. Ethanol Export Markets



Ethanol exports to the **EU** have never recovered after collapsing in 2013 due to the imposition of an ethanol import tariff. New import duties also caused shipments to **China** to fall in 2017. Meanwhile, exports to **Brazil** and **India** surged in 2017.

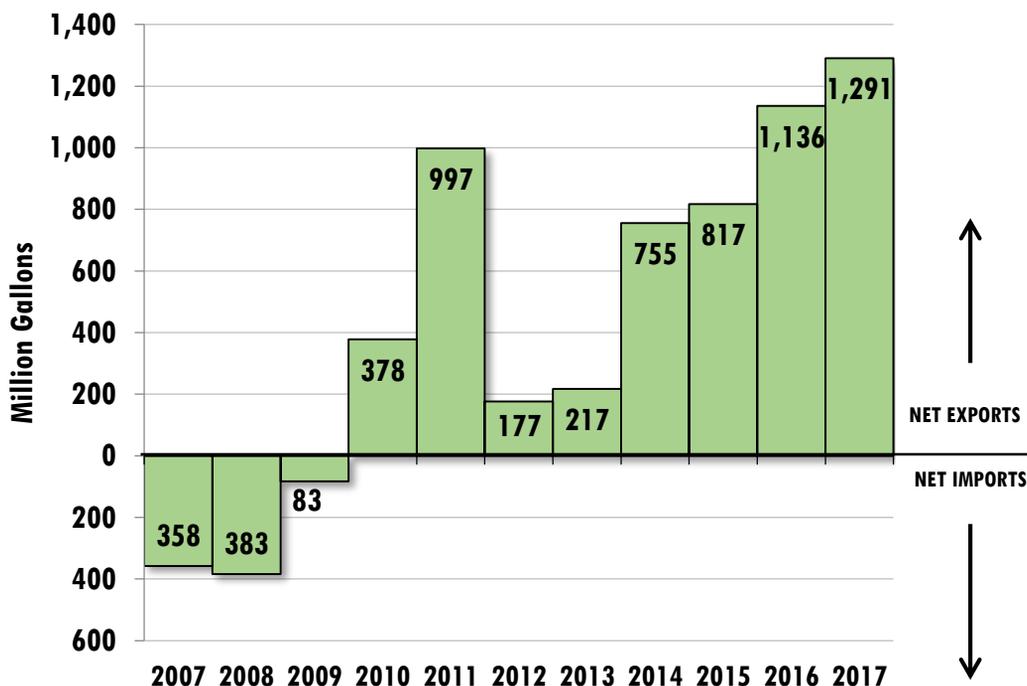
TOP EXPORT HUBS AND NET EXPORTS

Top Ports of Exit for 2017 U.S. Ethanol Exports



Roughly **two-thirds** of U.S. ethanol exports departed through the Gulf in 2017, up modestly from 2016. Meanwhile, **16%** of exports went through Great Lakes ports, **8%** went through Pembina (ND), **6%** went out of the Pacific-Northwest, and **2%** exited through New York Harbor.

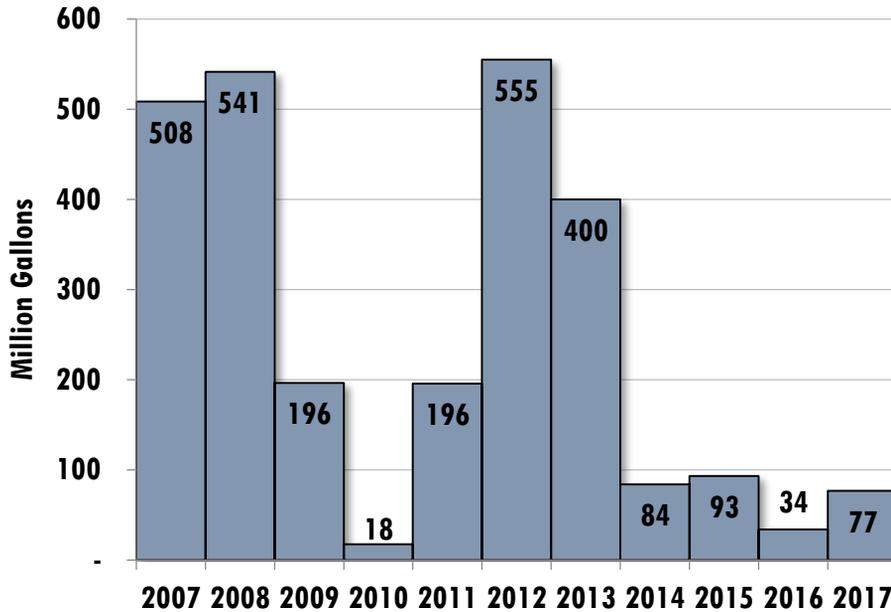
Annual U.S. Net Ethanol Exports



The U.S. set a **new record for net exports in 2017**, edging out 2016's total. The U.S. extended its streak as a net exporter of ethanol to eight years.

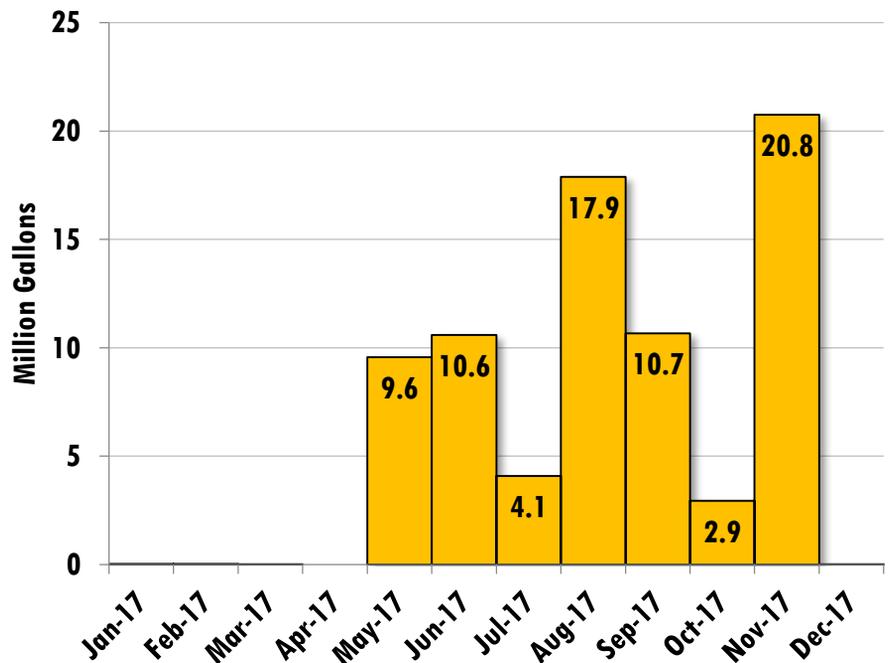
2017 U.S. ETHANOL IMPORTS

Annual U.S. Fuel Ethanol Imports



In 2017, the U.S. imported just **77 million gallons** of fuel ethanol, more than double the 2016 total but still well below historical levels. Annual U.S. ethanol imports have averaged just **72 million gallons** annually over the past four years.

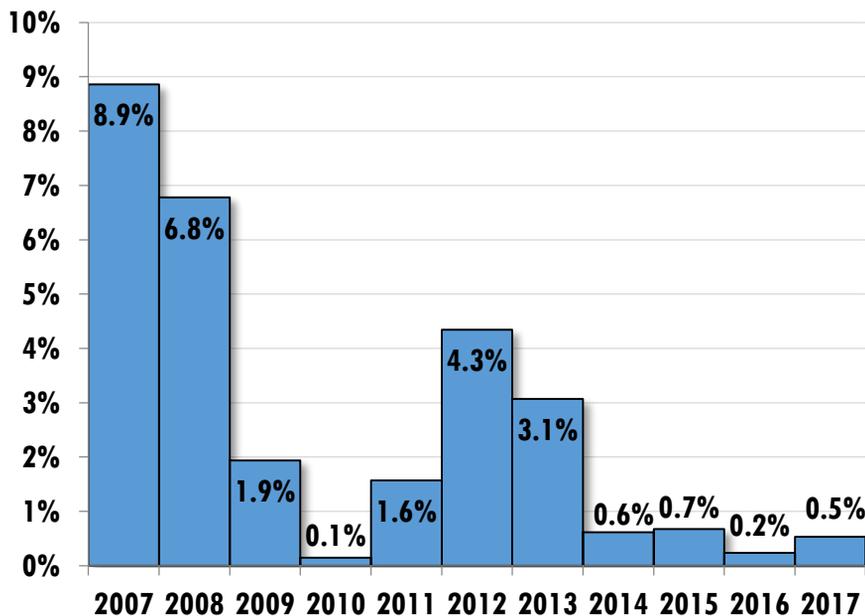
2017 Monthly Ethanol Imports



More than **99%** of 2017 fuel ethanol imports came from Brazil. Nearly all of the ethanol imports occurred during the May-November timeframe.

2017 U.S. ETHANOL IMPORTS

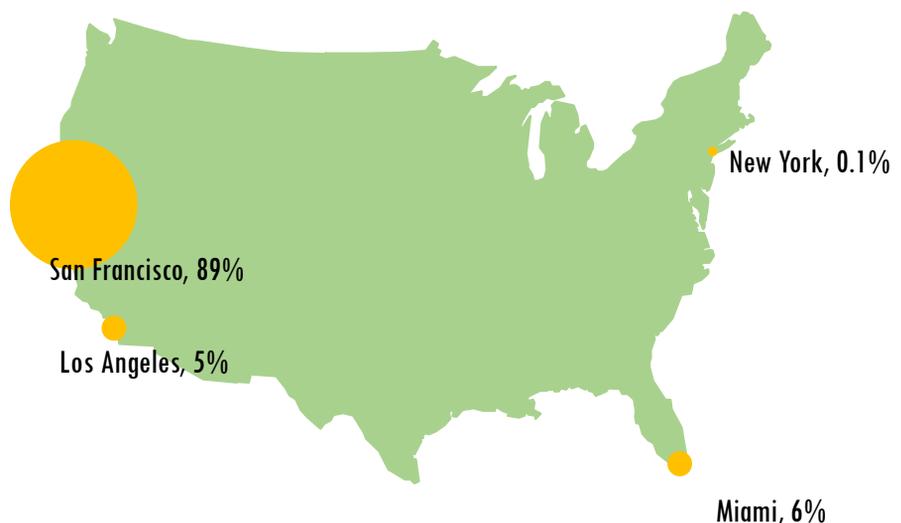
**U.S. Ethanol Imports:
Share of Total U.S. Ethanol Consumption**



Imports accounted for **less than 1%** of U.S. ethanol consumption for the fourth year in a row. Ethanol import reliance is down dramatically from the 2005-2008 timeframe, when imports typically accounted for 5-10% of U.S. consumption.

California ports received **94%** of U.S. fuel ethanol imports in 2017, compared to **99%** in 2016 and just **38%** in 2015. Miami was the only other major port of entry for fuel ethanol imports in 2017, bringing in nearly **6%**. Historical import hubs like Tampa and Houston recorded no fuel ethanol imports in 2017.

Top Ports of Entry for 2017 U.S. Ethanol Imports



ABOUT THE DATA IN THIS REPORT

U.S. Ethanol Export Data

- The export data in this report includes exports classified under the following Harmonized Tariff Schedule (HTS) codes:
 - **2207200010**: Ethyl alcohol and other spirits, denatured, of any strength: For fuel use
 - **2207106010**: Undenatured ethyl alcohol of an alcoholic strength by volume of 80 percent vol. or higher: For non-beverage purposes: For fuel use
 - **2207200090**: Ethyl alcohol and other spirits, denatured, of any strength: Other
 - **2207106090**: Undenatured ethyl alcohol of an alcoholic strength by volume of 80 percent vol. or higher: For non-beverage purposes: Other
- 2207200090 and 2207106090 are included in this report because there is some anecdotal evidence that exports of ethanol intended for fuel use are sometimes classified under these codes. In any case, ethanol classified under these codes represented just 5% of the 2017 U.S. exports discussed in this report.

U.S. Ethanol Import Data

- The import data in this report includes imports classified under the following Harmonized Tariff Schedule (HTS) codes:
 - **2207200010**: Ethyl alcohol and other spirits, denatured, of any strength: For fuel use
 - **2207106010**: Undenatured ethyl alcohol of an alcoholic strength by volume of 80 percent vol. or higher: For non-beverage purposes: For fuel use

Sources

- All data in this report comes from the U.S. Census Bureau, U.S. Department of Commerce, U.S. Department of Agriculture, U.S. International Trade Commission, and U.S. Energy Information Administration

The Renewable Fuels Association publishes **monthly** summaries of export and import data for ethanol and distillers dried grains on its award-winning [E-Blog](#).

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